

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits     | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|----------|---|---|------------------|---------|---------------------|
| L1    | 0        | ((CHOI near3 IN-KYEONG)<br>(KIM near3 SEONG-PAG)<br>(KWON near3 DONG-SEUNG)<br>(CHOI near3 JIN-HO)).in. and<br>(converter same eigen same<br>fourier).clm.    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/21<br>11:12 |
| L2    | 2        | ((CHOI near3 IN-KYEONG)<br>(KIM near3 SEONG-PAG)<br>(KWON near3 DONG-SEUNG)<br>(CHOI near3 JIN-HO)).in. and<br>(converter same eigen\$8 same<br>fourier).clm. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/21<br>11:13 |
| S1    | 28239257 | @ad<="20031227" or<br>@rlad<="20031227" or<br>@ptad<="20031227" or<br>@pt1d<="20031227" or<br>@pt3d<="20031227"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/20<br>14:06 |
| S2    | 7        | (convert\$4) same (symbol<br>subcarrier sub-carrier) same<br>(eigen) same ((invers\$4 near3<br>fourier) ifft)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/20<br>14:08 |
| S3    | 0        | S1 and S2   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/20<br>14:09 |
| S4    | 4162     | (convert\$4) same (symbol<br>subcarrier sub-carrier) same<br>(((invers\$4 near3 fourier) ifft)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/20<br>14:10 |
| S5    | 2240     | (convert\$4) same (symbol<br>subcarrier sub-carrier) same<br>(((invers\$4 near3 fourier) ifft)<br>same ofdm   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/20<br>14:10 |
| S6    | 13       | (convert\$4) same (symbol<br>subcarrier sub-carrier) same<br>(((invers\$4 near3 fourier) ifft)<br>same ofdm same eigen\$9                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/20<br>14:10 |
| S7    | 16       | (convert\$4) same (symbol<br>subcarrier sub-carrier) same<br>(((invers\$4 near3 fourier) ifft)<br>same eigen\$9   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/04/20<br>14:11 |

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| S8  | 3    | S1 and S7  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:11 |
| S9  | 39   | ((symbol subcarrier sub-carrier<br>same ((invers\$4 near3 fourier<br>ifft) same eigen\$9   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:14 |
| S10 | 14   | S1 and S9  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:14 |
| S11 | 2    | "20060133530"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:23 |
| S12 | 1538 | ((symbol near3 ofdm)<br>subcarrier sub-carrier) same<br>(((invers\$4 near3 fourier) ifft)<br>same antenna\$4   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:35 |
| S13 | 175  | ((symbol near3 ofdm) subcarrier<br>\$4 sub-carrier\$4) with ((invers<br>\$4 near3 fourier) ifft) with<br>antenna\$4 with ofdm  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:35 |
| S14 | 43   | S1 and S13   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:36 |
| S15 | 27   | converter with ((symbol near3<br>ofdm) subcarrier\$4 sub-carrier<br>\$4) with (((invers\$4 near3<br>fourier) ifft) with antenna\$4<br>with ofdm                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:40 |
| S16 | 10   | S1 and S15   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:40 |
| S17 | 250  | converter same ((symbol near3<br>ofdm) subcarrier\$4 sub-carrier<br>\$4) same ((invers\$4 near3<br>fourier) ifft) same antennas<br>same ofdm                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:54 |
| S18 | 69   | converter same ((symbol near3<br>ofdm) subcarrier\$4 sub-carrier<br>\$4) same ((invers\$4 near3<br>fourier) ifft) same antennas<br>same ofdm same receiver same<br>transmitter | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:55 |

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| S19 | 23 | S1 and S18   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>14:55 |
| S20 | 57 | (group\$4 near4 ((symbol near3 ofdm) subcarrier\$4 sub-carrier \$4)) same (eigenbeam\$4 (eigen adj beam\$4)) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:06 |
| S21 | 17 | S1 and S20   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:06 |
| S22 | 2  | "6985434".pn.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:07 |
| S23 | 7  | (group\$4 near4 ((symbol near3 ofdm) subcarrier\$4 sub-carrier \$4)) same (eigenbeam\$4 (eigen adj beam\$4)) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:10 |
| S24 | 0  | S1 and S23   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:10 |
| S25 | 18 | (group\$4 near4 ((symbol near3 ofdm) subcarrier\$4 sub-carrier \$4)) and (eigenbeam\$4 (eigen adj beam\$4))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:11 |
| S26 | 1  | S1 and S25   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:11 |
| S27 | 10 | ((((symbol near3 ofdm) subcarrier\$4 sub-carrier\$4)) same (eigenbeam\$4 (eigen adj beam\$4)) same feed\$8   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:12 |
| S28 | 1  | S1 and S27   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:12 |
| S29 | 2  | "6985434".pn.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:14 |

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| S30 | 22 | ((symbol near3 ofdm subcarrier\$4 sub-carrier\$4)) same (eigenbeam\$4 (eigen adj beam\$4))                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:16 |
| S31 | 1  | S1 and S30   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:16 |
| S32 | 40 | ((symbol near3 ofdm subcarrier\$4 sub-carrier\$4)) same (eigenbeam\$4 eigen-beam\$4 (eigen near3 beam\$4))       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:16 |
| S33 | 7  | S1 and S32   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:17 |
| S34 | 60 | (eigenvector\$4 (eigen near3 vector\$4) eigen-vector\$4) same (eigenbeam\$4 eigen-beam\$4 (eigen near3 beam\$4)) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:18 |
| S35 | 28 | S1 and S34   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:18 |
| S36 | 1  | wo adj "0241524"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:28 |
| S37 | 4  | "2002041524"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:29 |
| S38 | 0  | wo adj "2041524"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:30 |
| S39 | 0  | wo adj "02041524"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:30 |
| S40 | 0  | wo adj "02/041524"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:30 |

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| S41 | 0        | wo adj "2/041524"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:30 |
| S42 | 0        | wo near3 2/041524   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:30 |
| S43 | 0        | wo near3 "2041524"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:31 |
| S44 | 0        | wo near3 "02041524"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:31 |
| S45 | 36888571 | WO 02/041524  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:31 |
| S46 | 0        | WO adj 02/041524  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:31 |
| S47 | 0        | WO near3 02/041524  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:31 |
| S48 | 0        | WO near3 "02041524"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:31 |
| S49 | 0        | WO-2041524-\$.did   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:32 |
| S50 | 0        | WO-2041524-\$.did.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:32 |
| S51 | 21       | (longterm (long near3 term)<br>long-term) same (eigenbeam\$4<br>eigen-beam\$4 (eigen near3<br>beam\$4)) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:35 |

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| S52 | 17 | S1 and S51 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:35 |
| S53 | 1  | 10/584641  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/04/20<br>15:58 |

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